

What is claimed is:

1.- A motor-operated valve for regulating a gas flow adapted for the supply of a main gas flow and a pilot gas flow to an environmental heating appliance, comprising:  
a valve body (4) with a gas inlet conduit (6), an axial flow conduit (5) and a number of gas outlet conduits (7,8,20) transverse to said axial flow conduit;  
a valve spindle (10,10a) sliding linearly along said axial flow conduit (5) and at least one cut-off member (11) provided with a return spring (17) of the lift type coupled to the valve spindle (10) to modulate a gas flow (3) directed to a main outlet conduit (8);  
a motor (9) coupled on the valve body for actuating the valve spindle and its axial movement in both directions;  
a flame safety valve (14,15) provided with a magnetic assembly (14) located on one side of the valve body opposite the motor (9) side and in series with the inlet conduit (6),  
wherein the valve spindle (10,10a) is a one-piece stem actuated directly by the motor for its linear movement in an initial axial direction, extending from the motor and pushing the safety valve (14,15) to open it initially, and in a second axial direction (e), retracting for the raising of at least said modulating cut-off member (11);  
safety cut-off means (21-24) to prevent the flow of gas towards any of the outlet conduits (7,8,20) in case the movement of the spindle (10) is locked because of the motor, wherein said cut-off means are housed in this central flow conduit (5) and are drawn by the spindle (10), in a position between the inlet conduit (6) and the outlet conduits (7,8), whereby in its forward movement (e) the spindle (10) is separated from the safety magnetic assembly

(14) and, as the flame safety valve is open, the flow of gas to any of the outlet conduits (7,8) is kept shut off.

2.- A motor-operated valve for regulating a gas flow according to claim 1, wherein the safety cut-off members (21-24) comprise a cut-off member (21), resting on a valve seat (22) interposed in the central flow conduit (5) downstream of the gas flow modulating cut-off member (11), whereby when the spindle (10) is separated from the magnetic assembly (14), as the flame safety valve (14,15) is open, the safety cut-off member (21) is drawn by the valve spindle irrespective of the flow modulating cut-off member (21).

3.- A motor-operated valve for regulating a gas flow according to claim 1, wherein the safety cut-off members (5a,21-24) comprise a cut-off member (21), resting on a valve seat (22), interposed in the central flow conduit (5) by means of the pressure of a return spring which has a compression coefficient lower than that of the return spring (17) of the cut-off member (11) for regulating the gas flow (3), whereby the safety cut-off member (21') is raised by the forward movement (e) of the spindle (10), while the regulating cut-off member (11) remains up against its valve seat (22).

4.- A motor-operated valve for regulating a gas flow adapted for the supply of a main gas flow and a pilot gas flow to an environmental heating appliance, comprising: a valve body (4) with a gas inlet conduit (6), a central flow conduit (5), extended axially in the valve body, and a number of gas outlet conduits (7,8) transverse to said central flow conduit;

a valve spindle (10,10a) sliding linearly along this central flow conduit (5) and at least one cut-off member (11) of the lift type coupled to the valve spindle (10) to modulate a gas flow (3) directed to a main outlet conduit (8);

a motor (9) coupled on the valve body for actuating the valve spindle and its axial movement in both directions;

a flame safety valve (14,15) provided with a magnetic assembly (14) located on one side of the valve body opposite the motor (9) side and in series with the inlet conduit (6);

wherein the valve spindle (10,10a) is a one-piece stem actuated directly by the motor for its linear movement in an initial axial direction, extending from the motor and pushing the safety valve (14,15) to open it initially, and in a second axial direction (e), retracting for the raising of at least said modulating cut-off member (11);

said central flow conduit, comprising two intermediate portions (5a,5b) of conduit arranged in series, each of a different diameter from the other, between the flame safety valve (14,15) and the modulating cut-off member (11), wherein the smaller-diameter intermediate conduit portion (5a), is downstream of both gas flow outlet conduits (7,8); safety cut-off means (5a, 21-24, 21'-22')) to prevent the flow of gas towards the outlet conduits (7,8,20) in case the movement of the spindle (10) is locked because of the motor, wherein said cut-off means are housed in this portion of the smaller-diameter intermediate conduit portion (5a) and are drawn by the spindle (10), whereby, as the flame safety valve is open, the flow of gas to any of the outlet conduits (7,8,20) is kept shut off.

5.- A motor-operated valve for regulating a gas flow according to claim 4, wherein said safety cut-off members (5a, 21-24, 21'-22') comprise a flat disc (21') attached to the valve shaft and encircled by a sealing O-ring (22'), and it slides snugly in said smaller-diameter conduit portion (5a), located adjacently downstream of the flame safety valve (14,15).